

APPENDIX I **PRE-START-UP SAFETY REVIEW FOR** **MAINTENANCE SHUTDOWN CHECKLIST**

PSSR Number: 6460

Project/Equipment Description:

4 Crude PSSR 2011 Major

The PSSR Team Leader convenes a meeting of a PSSR Review Team prior to start up of the facilities covered by this PSSR. The Team Leader chooses team members based on their understanding of the MOC (use the list below as a memory jogger). This team conducts a walkthrough if there is altered or additional equipment. The team verifies all MOCs are completed and confirms the change is ready to start up. The team generates a list of incomplete items identifying item owner and timetable for completion. Representatives acknowledge below their organization's work is complete (except as noted on the list below), that current QA programs were followed and that records will be retained for audit purposes.

Business Unit Rep: Curry, David P.

Date: 11/10/2011

Determines all MOC's associated with this facility are approved for Start-up

Maintenance Shutdown Supervisor Rep: Lackey, Mark W.

Date: 11/8/2011

Certifies that all planned and unplanned work required for Start-Up in complete except as noted on the list below

Verifies that existing quality assurance progress (e.g. PMI, Metal Craft Quality Assurance, VOC valves, Loop checks) were followed

Put maintenance checklists and records in files for audit purposes

Other PSSR Review Team Members: (include organization and name):

Examples of other organizational groups that may be included for shutdowns where they have significant input: Engineering, Plant Protection, Utilities, Environmental and Safety, IMI, or inspectors.

Organization	Name	Date
Impact	Greenfield, Matthew R.	11/11/2011
Inspection	Beauregard, John T.	11/10/2011
DED	Corson, Andrew S.	11/10/2011

Miscellaneous Comments:

FER had no repairs required in C-1100 during this outage. Number 4 S/c piping replacements are complete and accepted by B31.3 piping standards.

Area Business Manager Responsibilities:

- Verifies that operating procedures are in place for this particular Start-Up.
- Verifies that affected operating personnel are trained for this particular Start-Up.
- Confirms Start-Up checklists (i.e., initialed Start-Up/PreStart-Up section of Operating Procedures and referenced checklists such as blind lists) will be completed and put in files for audit purposes.

Incomplete items showing owner and timetable for completion (attach additional pages as necessary):

Exception	Owner	Comp. By	Comp. On	Notified
MOC PSSR items from 23282	Rojo, Raquel V.	Rojo, Raquel V	#####	#####
complete PSSR items for sub systems	Massaro, Vincent R.	Massaro, Vince	#####	#####
C7-84 PRD needs to be installed	Lenker, Ronald L.	Lenker, Ronald	11/7/2011	#####
cu	Massaro, Vincent R.	Massaro, Vince	#####	#####
BE102-E3 Need Insulation	Massaro, Vincent R.	Lackey, Mark	12/1/2011	#####
install 11FV043	Massaro, Vincent R.	Massaro, Vince	11/8/2011	#####
BE349-01 remove hydro blind and install TI	Massaro, Vincent R.	Oneill, Patrick	11/6/2011	#####
BE349-11 Cracked S/G	Massaro, Vincent R.	Oneill, Patrick	11/6/2011	

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BE125-E1 Hook Up tracing / Install Support	Massaro, Vincent R.	Massaro, Vince	#####
11PC111, 11PC211, 11PC622 Min Fire B/P Vlv's need to modify limit switches.	Burkhart, Elijah R.	Burkhart, Elija	#####
V-1100 LVL Bridal hitting deluge system, needs to be adjusted	Massaro, Vincent R.	Massaro, Vince	#####
Remove blind upstream of K-1100 Disch. To C-1190 stanchion #6	Massaro, Vincent R.	Massaro, Vince	11/8/2011 #####
Complete overflash demo work includes permanent blinds at C-1100 and Boiler makers on open line	Massaro, Vincent R.	Massaro, Vince	#####
FV000 steam tracing needs to be connected and insulated	Massaro, Vincent R.	Massaro, Vince	#####
Remove Staging	Massaro, Vincent R.	Massaro, Vince	#####
Install PT 002	Massaro, Vincent R.	Massaro, Vince	#####
BE115-E1 K-1179 Seal Flush piping needs to be hooked up.	Massaro, Vincent R.	Massaro, Vince	11/8/2011 #####
Remove Staging	Massaro, Vincent R.	Massaro, Vince	#####
Insulate new piping	Massaro, Vincent R.	Massaro, Vince	#####
BE104-01 Vent line not installed	Massaro, Vincent R.	Massaro, Vince	#####
BE104-03 Install PRD	Massaro, Vincent R.	Massaro, Vince	11/8/2011 #####
BE131-01 Install BM/bleeder	Massaro, Vincent R.	Massaro, Vince	11/8/2011 #####
remove Staging	Massaro, Vincent R.	Massaro, Vince	#####
Install Insulation	Massaro, Vincent R.	Massaro, Vince	#####
staging in plant	Massaro, Vincent R.	Massaro, Vince	#####
Missing insulation cap on BE102-E1 GENVLV-050 300# gate valve pipe at E-1102A/B/C	Massaro, Vincent R.	Lackey, Mark	12/1/2011 #####
E-1102,03,06, 07, 16E/F, C7-95 Recovered oil PRD staging not removed	Massaro, Vincent R.	Massaro, Vince	#####
BE603-01 Crude Feed MOV- actuator needs to be repaired.	Massaro, Vincent R.	Massaro, Vince	#####
11TI571 and TI572 hook up and loop check on E-1107A/B incomplete	Massaro, Vincent R.	Massaro, Vince	#####
P-1101A suction MOV needs electrical hookup and stroke.	Massaro, Vincent R.	Massaro, Vince	#####
E-1107 pipe coating and insulation not installed	Massaro, Vincent R.	Lackey, Mark	12/1/2011 #####
PRD on NH# system blocked in w/ bleeder open upstream until S/U	Preciado, Silvano E.	Preciado, Silva	#####
housekeeping clean up 4 CU switchgear house	Massaro, Vincent R.	Lackey, Mark	12/1/2011 #####
complete QA/QC docs	Massaro, Vincent R.	Massaro, Vince	11/8/2011 #####
remove temp chem clean pipe	Burkhart, Elijah R.	Burkhart, Elija	11/6/2011 #####
remove temp pipe from reboilers	Burkhart, Elijah R.	Burkhart, Elija	11/6/2011 #####
repair valve 130 from list - at P-1195	Burkhart, Elijah R.	Curry, David P.	11/5/2011 #####

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Valve BE-127 not installed (sitting on ground)

Burkhart, Elijah R.

Burkhart, Elija 11/6/2011 #####

Bottom TI lead broken off - try and repair

Burkhart, Elijah R.

Burkhart, Elija 11/7/2011 #####

I recommend this facility be placed in operation:

Approved for Operation:

Facilitator: Curry, David P.

Area Business Manager: Curry, David P.

Date: 11/10/2011

ABU Manager Date: 11/10/2011